

WHAT IS CLAIMED IS:

1. A solid imaging device in which pixel information of two adjoining lines composes color information of three primary colors, said solid imaging device comprises transferring gates to which gate pulses for transferring only the pixel information of pairs of two adjoining lines with intervals of a plurality of lines to vertical transferring routes are applied when image signals with low definition are produced.
2. The solid imaging device as set forth in claim 1, wherein said solid imaging device transfers pixel information of all vertical lines to said vertical transferring routes without reducing the pixel information when image signals with high definition are produced.
3. The solid imaging device as set forth in claim 1, wherein said solid imaging device divides pixel information of all vertical lines into pixel information of a plurality of fields to transfer the pixel information to said vertical transferring routes when image signals with high definition are produced.
4. An imaging apparatus comprising:
  - said solid imaging device as set forth in claim 1;
  - a shooting optical system that forms a subject image on a receiving surface of said solid imaging device;
  - a timing generator that drives said solid imaging device and reads pixel information from said solid imaging device, the timing generator applying gate pulses for transferring only pixel information of pairs of two adjoining lines with intervals of a plurality of lines to vertical transferring routes to said transferring

09562323-091400

gates when image signals with low definition are produced; and

a signal processing device that produces the image signals by producing pixel information of one line from the pixel information of each pair of two adjoining lines read from said solid imaging device when the image signals with the low definition are produced.

5. The imaging apparatus as set forth in claim 4, wherein said timing generator applies gate pulses for transferring pixel information of all the vertical lines to said vertical transferring routes without reducing the pixel information to said transferring gates at least when image signals with high definition are produced.

6. The imaging apparatus as set forth in claim 4, wherein said timing generator applies gate pulses for dividing pixel information of all the vertical lines into pixel information of a plurality of fields to transfer the pixel information to said vertical transferring routes to said transferring gates at least when image signals with high definition are produced.

7. The imaging apparatus as set forth in claim 4, wherein said signal processing device reduces pixel information of horizontal lines when image signals with low definition are produced.

8. The imaging apparatus as set forth in claim 4, wherein:

said signal processing device has an interpolation operation device that interpolates the image signals with the low definition to produce image signals; and

said signal processing device outputs image signals including the produced image signals.

004160" 091400  
09663323  
02229960

9. The imaging apparatus as set forth in claim 4, further comprising a displaying device that displays a shot image according to the image signals with the low definition.

10. The imaging apparatus as set forth in claim 4, further comprising a recording device that records the image signals of the high definition.

11. A driving method for a solid imaging device in which pixel information of two adjoining lines composes color information of three primary colors, comprising the steps of;

applying gate pulses for transferring pixel information of all the vertical lines to said vertical transferring routes without reducing the pixel information to said transferring gates when image signals with high definition are produced;

applying gate pulses for transferring only pixel information of pairs of two adjoining lines with intervals of a plurality of lines to said vertical transferring routes to said transferring gates when image signals with low definition are produced; and

producing pixel information of one line from the pixel information of each pair of two adjoining lines read from said solid imaging device when the image signals with the low definition are produced.

12. A driving method for a solid imaging device in which pixel information of two adjoining lines composes color information of three primary colors, comprising the steps of;

applying gate pulses for dividing pixel information of all the vertical lines into pixel information of a plurality of fields and transferring the pixel information to said vertical transferring routes to said transferring gates when image signals with high definition are produced;

applying gate pulses for transferring only pixel information of pairs of two adjoining lines with intervals of a plurality of lines to said vertical transferring routes to said transferring gates when image signals with low definition are produced; and

producing pixel information of one line from the pixel information of each pair of two adjoining lines read from said solid imaging device when the image signals with the low definition are produced.

09663323-091400  
004760 E2E29360